

Garant
Solid carbide copy slot drill, Diamond, Ø DC × L1: 1X4 mm

Order data

Order number	209791 1X4
GTIN	4045197919991
Item class	11Y

Description
Version:

With **crystalline diamond sp³ coating**. For the **highest demands regarding performance and precision** in fibre-reinforced composites, CRP, GRP, and graphite. **Extremely tight tolerances** ensure maximum accuracy. Double relief ground with 2 hollow-ground chamfers. **Recess angle $\alpha = 16^\circ$** .

Tolerances:

- **Corner radius: Radius contour 0 / -0.005 mm.**
- **Neck Ø: $D_1 = 0 / -0.01$ mm.**

Note:

At greater tool overhang lengths, use a reduced value for a_p !
values for:

copying: $a_p = 0.15 \times D \times a_{p, \text{korr}}$

To calculate the feed rate vf please use the actual speed of the machine (the maximum possible speed)!

e.g: $vf = 18000 \text{ [rpm]} \times fz \text{ [mm/Z]} \times z$

No. of teeth Z: 2

Helix angle: 30 degrees

No. of teeth Z: 2

Flute length L_c : 0.8 mm

Corner radius R_1 : 0.5 mm

Overhang length L_1 incl. recess: 4 mm

Recess Ø D_1 : 0.96 mm

Overall length L: 45 mm

Technical description

Cutting edge Ø D_c	1 mm
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Overhang length L_1 incl. recess	4 mm
Overall length L	45 mm
No. of teeth Z	2
Flute length L_c	0.8 mm
Recess $\varnothing D_1$	0.96 mm
Shank $\varnothing D_s$	4 mm
Feed f_z for copy milling in graphite	0.03 mm
Corner radius R_1	0.5 mm
Helix angle	30 degrees
Correction factor $a_{p,corr}$	1
Coating	Diamond
Tool material	Solid carbide
Standard	Manufacturer's standard
Tolerance nominal \varnothing	0 / -0.005
Direction of infeed	horizontal, oblique and vertical
Cutting width a_e for milling operation	0.05×D for copy milling
Shank	DIN 6535 HA to h5
Through-coolant	no
Colour ring	black
Type of product	End mill